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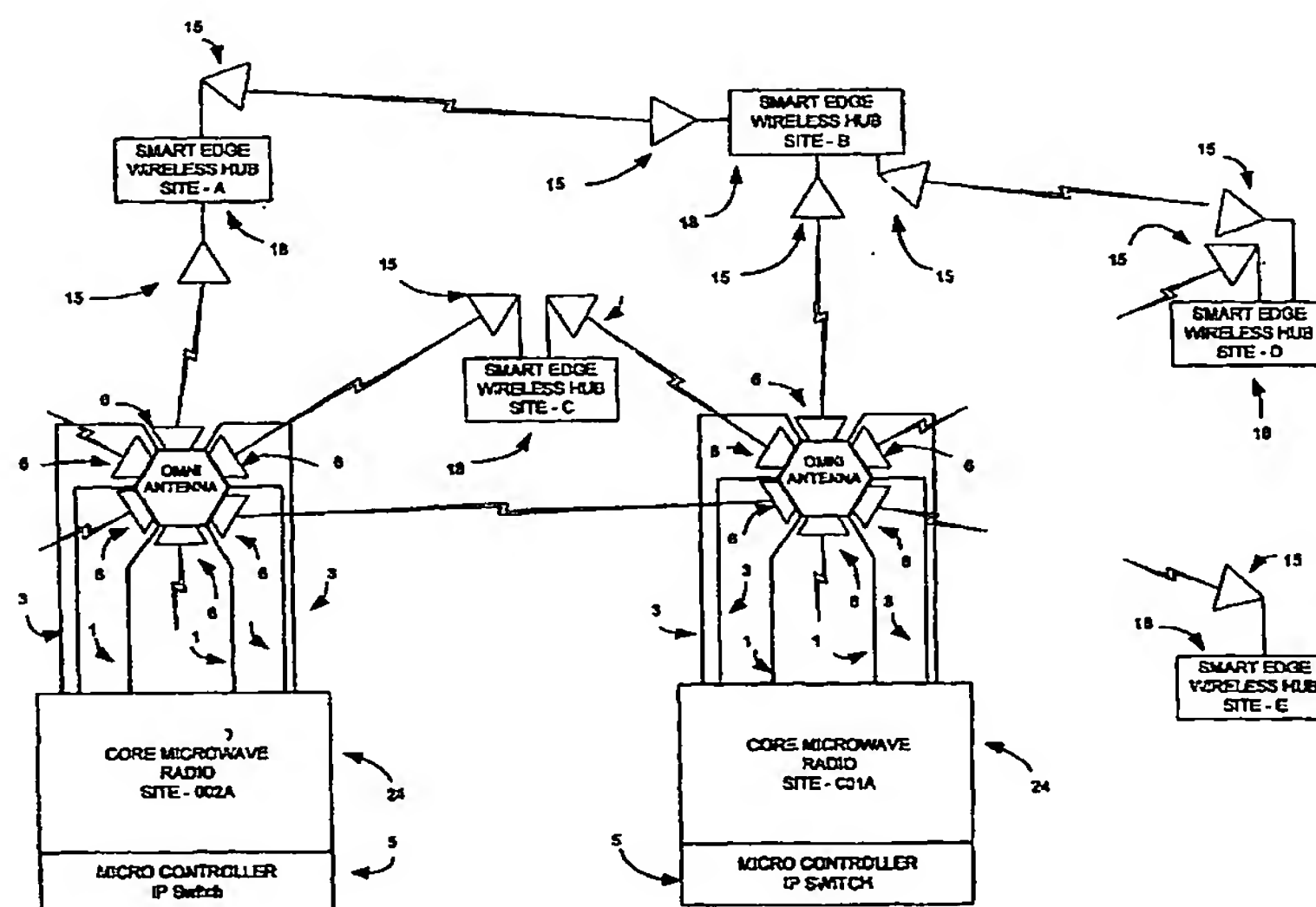
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(54) Title: WIRELESS BROADBAND LICENSED NETWORKING SYSTEM FOR LOCAL AND WIDE AREA NETWORKING



(57) Abstract: A licensed microwave radio multi-functional broadband system (FIG .4) with multiple numbers of installed edge smart wireless hubs (18). The system provides dynamic, automated selection of transmission types (5), including Quadrature Amplitude Modulation (QAM), Quadrature Phase Shift Keying (QPSK) and orthogonal frequency division multiplexing (OFDM) for broadcast over point-to-point, point to multipoint and omni-directional antenna arranged in six equal 60° degree arrays (10-13, 21, 23). The system also includes an intelligent data IP packet measurement system that dynamically reads and controls the network Quality of Service [QoS] through software. The automated control may include throttling power up and power down to meet changing effects of transmission parameters in substantially real time.



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